AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A plastic sheet ~~with folding rules, being a plastic sheet provided with~~ comprising:

concave folding rules ~~composed of~~ including a pair of side faces inclined at a specified angle and mutually facing oppositely, and a narrow bottom face ~~consecutive to~~ contiguous with an end of the pair of side faces,

wherein shallow grooves are formed at specified intervals in the longitudinal direction along the bottom face of the folding rules~~, and~~ ;

a plurality of deeper grooves, which are deeper than the shallow grooves, and are formed in the longitudinal direction along the bottom face between the shallow grooves; and

grooves of medium depth, which are deeper than the shallow grooves and shallower than the deep grooves, formed in the bottom of the folding rules between the shallow grooves.

2. (Original) The plastic sheet with folding rules of claim 1,

wherein the deep grooves are formed at different depths.

3. (Canceled).

4. (Currently Amended) A rule cutter for a plastic sheet used in forming folding rules in folding portions of the plastic sheet, said rule cutter comprising a pair of side faces inclined at a specified angle and mutually facing oppositely, and a narrow top face ~~consecutive to~~ contiguous with an end of the pair of side faces,

wherein blades of shallow infeed are formed at specified intervals in the longitudinal direction along the top face of the rule cutter~~, and~~ ;

a plurality of blades of deeper infeed than the shallow blades are formed in the longitudinal direction along the top face between the shallow blades; and

blades of medium infeed, which are deeper than the infeed of the shallow blades and shallower than the infeed of the deep blades, are formed between adjacent shallow blades.

5. (Original) The rule cutter for plastic sheet of claim 4,

wherein the shallow blades are set at different depths of infeed.

6. (Canceled).

7. (Currently Amended) The plastic sheet with folding rules of claim 1,

wherein the deep grooves **[[and]]** are formed by deep blades and are set at dimensions deeper by a specified rate from the shallow grooves **[[and]]** formed by shallow blades.

8. (Currently Amended) A plastic sheet ~~with folding rules, being a plastic sheet~~ provided with concave folding rules ~~composed of~~, said folding rules comprising;

a pair of side faces inclined at a specified angle and mutually facing oppositely, and a narrow bottom face ~~consecutive to~~ contiguous with an end of the pair of side faces, ~~characterized by~~ wherein:

~~forming~~ a plurality of grooves is formed shallower than the folding rules in the overall length of bottom of folding rules, and

~~inclining~~ the grooves are inclined at a specified angle to the rule forming direction of the folding rules to arrange the grooves in a rope pattern,

wherein inclined side surfaces of adjacent grooves contact each other.

9. (Currently Amended) The plastic sheet with folding rules of claim 8,

wherein holes ~~penetrating in the thickness direction~~ are provided in the bottom of the folding rules and are formed ~~in the bottom~~ between adjacent grooves.

10. (Currently Amended) The plastic sheet with folding rules of claim 8,

wherein the dimensions of parts of grooves are set in dimensions included in a specified range ~~suited to folding of~~ suitable to fold the plastic sheet.

11. (Currently Amended) A rule cutter for a plastic sheet used in forming folding rules in folding portions of the plastic sheet, said rule cutter comprising a pair of

side faces inclined at specified angle and mutually facing oppositely, and a narrow top face ~~consecutive to~~ contiguous with an end of the pair of side faces, ~~characterized by:~~ wherein:

~~forming~~ a plurality of concave blades is formed in the overall length of top of rule cutter, and

~~inclining~~ the blades are inclined at a specified angle to the rule forming direction of folding rules to arrange in a rope pattern,

wherein inclined side surfaces of adjacent blades contact each other.

12. (Currently Amended) The rule cutter for plastic sheet of claim 11,

wherein holes ~~penetrating in the thickness direction~~ are provided in the bottom of the folding rules and are formed ~~in the bottom~~ between adjacent grooves.

13. (Original) The rule cutter for plastic sheet of claim 11,

wherein the dimensions of parts of grooves are set in dimensions included in a specified range suited to forming of folding rules in the plastic sheet.

14. (Currently Amended) A plastic sheet with concave folding rules, ~~being a plastic sheet provided with concave folding rules composed of~~ said concave folding rules comprising a pair of side faces inclined at a specified angle and mutually facing oppositely, and a narrow bottom face ~~consecutive to~~ contiguous with an end of the pair of side faces, ~~characterized by:~~ wherein:

~~forming~~ a plurality of grooves is formed at depths depending on the thickness of the plastic sheet at specified intervals in the longitudinal direction along the bottom of folding rules~~, and~~;

~~forming~~ shallow grooves, which are shorter in depth than the plurality of grooves formed in the longitudinal direction along the bottom of the folding rules, are formed at depths depending on the thickness of the plastic sheet ~~but shorter than the above grooves in the longitudinal direction,~~ in the longitudinal direction along the bottom of the folding rules between the grooves; and

grooves of medium depth, which are deeper than the shallow grooves and shallower than the deep grooves, are formed along the bottom of the folding rules between adjacent shallow grooves.

15. (Original) The plastic sheet with folding rules of claim 14,

wherein the grooves are formed at nearly same or different depths.

16. (Previously Presented) The plastic sheet with folding rules of claim 14,

wherein the grooves are formed in a smooth curvature.

17. (Previously Presented) The plastic sheet with folding rules of claim 14,

wherein parts of the grooves are set at dimensions included in a specified rate suited to folding depending on the thickness of the plastic sheet.

18. (Currently Amended) A rule cutter for plastic sheet used in forming folding rules in folding portions of plastic sheet, said rule cutter comprising a pair of side faces inclined at a specified angle and mutually facing oppositely, and a narrow top face ~~consecutive to~~ contiguous with an end of side faces, ~~characterized by:~~ wherein:

~~forming~~ a plurality of deep blades is formed at heights depending on the thickness of the plastic sheet at specified intervals in the longitudinal direction along the top of the rule cutter~~, and~~;

~~forming~~ shallow blades are formed at heights, which are shorter than the plurality of deep blades formed in the longitudinal direction along the top of the rule cutter, depending on the thickness of the plastic sheet ~~but shorter than the above blades in the longitudinal direction,~~ in the longitudinal direction along the top ~~between the blades~~ of the rule cutter; and

~~forming~~ blades of medium height, which are taller than the height of the shallow blades and shorter than the height of the deep grooves, are formed between adjacent shallow blades.

19. (Original) The rule cutter for plastic sheet of claim 18,

wherein the blades are formed at nearly same or different heights.

20. (Previously Presented) The rule cutter for plastic sheet of claim 18,

wherein the blades are formed in a smooth curvature.

21. (Previously Presented) The rule cutter for plastic sheet of claim 18,

wherein parts of the blades are set at dimensions included in a specified rate suited to forming of folding rules depending on the thickness of the plastic sheet.

22. (Currently Amended) A plastic sheet with concave folding rules, ~~being a plastic sheet provided with concave folding rules composed of~~ said concave folding rules comprising a pair of side faces inclined at a specified angle and mutually facing oppositely, and a narrow bottom face ~~consecutive to~~ contiguous with an end of side faces, ~~characterized by:~~ wherein:

~~forming~~ a plurality of ~~shallower~~ shallow grooves that are shallower than the folding rules and ~~deeper~~ deep grooves that are deeper than the shallow grooves, are formed in the longitudinal direction along the bottom of the folding rules, and

~~forming~~ a plurality ~~of smaller~~ protrusions that are smaller than the shallow and deep grooves are formed in the longitudinal direction along the top of the shallow and deep grooves.

23. (Original) The plastic sheet with folding rules of claim 22,

wherein the small protrusions are formed in the shallow grooves and deep grooves.

24. (Previously Presented) The plastic sheet with folding rules of claim 22,

wherein the shallow grooves and deep grooves are formed at different depths or same depth.

25. (Previously Presented) The plastic sheet with folding rules of claim 22,

wherein the grooves and protrusions are formed in a specified size depending on the thickness of the plastic sheet.

26. (Previously Presented) The plastic sheet with folding rules of claim 22,

wherein the grooves and protrusions are formed in a smooth curvature as seen from the longitudinal direction of the folding rules.

27. (Currently Amended) A rule cutter for a plastic sheet used in forming folding rules in folding portions of plastic sheet, said rule cutter comprising a pair of side faces inclined at specified angle and mutually facing oppositely, and a narrow top face ~~consecutive to~~ contiguous with an end of side faces, ~~characterized by:~~ wherein:

~~forming~~ a plurality of ~~shallower~~ shallow blades that are shallower than the folding rules and ~~deeper~~ deep blades that are deeper than the shallow blades, are formed in the longitudinal direction along the top of the rule cutter, and

~~forming~~ a plurality of ~~smaller~~ recesses smaller than the shallow and deep blades are formed in the longitudinal direction along the bottom of the shallow and deep blades.

28. (Original) The rule cutter for plastic sheet of claim 27,

wherein the small recesses are formed in the shallow blades and deep blades.

29. (Previously Presented) The rule cutter for plastic sheet of claim 27,

wherein the shallow blades and deep blades are formed at different depth or same depth.

30. (Previously Presented) The rule cutter for plastic sheet of claim 27,

wherein the blades and recesses are formed in a specified dimension depending on the thickness of the plastic sheet.

31. (Previously Presented) The rule cutter for plastic sheet of claim 27,

wherein the blades and recesses are formed in a smooth curvature as seen from the longitudinal direction of the rule cutter.

32. (Previously Presented) The rule cutter for plastic sheet of claim 4,

wherein the deep grooves and deep blades are set at dimensions deeper by a specified rate from the shallow grooves and shallow blades.

33. (New) The plastic sheet according to claim 1,

wherein pitch intervals of the shallow grooves are approximately 1.1 mm and pitch intervals of the deep grooves are approximately .2mm.

34. (New) The rule cutter for a plastic sheet according to claim 4,

wherein pitch intervals of the shallow blades are approximately 1.1 mm and pitch intervals of the deep blades are approximately .2mm.